

The Tech



MASS. INST. OF TECHNOLOGY
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COMPTON, HARRISON, WIENER TALK ON ATOMIC ENERGY

Final Program Of Senior Week Is Announced

Activities To Start With Senior Banquet On Thursday, Feb. 21

The Senior Week Committee has announced the final list of events during Senior Week for the Classes of 2-46 and 6-46.

The Senior Banquet will be an informal stag affair to take place at the Hotel Commander in Cambridge at 6:30 P.M., Thursday, February 21. Coeds are to have a "hen party" in another room at the same place and time.

On the following day, from 9:00 P.M. to 1:00 A.M., the Senior Ball will be held at the Hotel Somerset in Boston. This affair will be formal. No orchestra has been signed up as yet.

The Class Day program will take place in Walker Memorial at 2:00 P.M., Saturday, February 23, this being one of the events to which parents and guests may be invited. Among the features of the program will be a Senior Show written by Marshall J. Corbett, 2-46, and Howard V. Perlmuter, 2-46. An informal Tea Dance will follow the afternoon's program with music furnished by Ruby Newman and his orchestra.

Alumni Banquet On Feb. 23

Seniors will be the guests of the Alumni Association for the Alumni Banquet which will be given at the Hotel Statler, on February 23, at 7:00 P.M.

The Baccalaureate Service will take place in Walker Memorial at 3:00 P.M., Sunday, February 24. The program has not yet been announced.

Commencement exercises will be held in Symphony Hall at 11:00 A.M., Monday, February 25, and that afternoon, from 3:00 P.M. to 5:00 P.M., the President's Reception will take place at Walker Memorial. Refreshments will be served and Ruby Newman's orchestra will furnish music for dancing.

Ticket Sales

Ticket sales will reopen in the Lobby of Building 10 Monday and Tuesday, January 14 and 15 from 11 A.M. to 2:00 P.M., and the Committee advises seniors to purchase their tickets as early as possible.

T.C.A. Opens Drive For Used Clothing

Need Now Desperate, Collection In Bldg. 10

Collection of used clothing for millions of destitute people throughout the world will begin today in Building 10, where the T.C.A. will have a collection station. Clothes may also be left in the T.C.A. office.

This will be the Institute's contribution to a nation-wide Victory Clothing Collection for overseas relief under the direction of Henry J. Kaiser. Although twenty-five millions were clothed as a result of the Spring Drive, this was only the beginning. For each one who received an American garment to replace rags worn through five years of war, a dozen are still lacking enough clothes for winter.

In short, says the T.C.A., the need is desperate. Anything will be gladly accepted.

"Male Animal" Tickets Now On Sale At \$1.20

Tickets for the Dramashop's winter-term production of "The Male Animal," by James Thurber and Elliott Nugent, are now on sale, and are obtainable at the T.C.A., the Information Office or from any member of the Dramashop. The price of tickets is \$1.20, tax included, for either Friday or Saturday night, January 25 or 26. The play is to be presented at the Peabody Playhouse on Charles Street in Boston, and curtain time is 8:30 P.M.

Prof. F. A. Magoun Begins Marriage Preparation Series

Defines Love, Outlines Necessary Conditions For Happy Marriage

Prof. F. Alexander Magoun delivered the first lecture of his annual winter series on "Preparation for Marriage" to two large audiences in Huntington Hall yesterday afternoon at 4:00 and 5:00 P.M. Prof. Magoun attempted to define love and to outline conditions for successful marriage.

"Love," he stated, "is a very rare commodity. It can only be had by working for it." But the question is how to know love and what it is. After eliminating the faulty forms of love, such as domination or exploitation, Prof. Magoun gave his definition of love: "Love is the creation for one's partner of a soil, a climate, an atmosphere in which the other can grow or flourish, at a much better atmosphere than the other could have achieved individually."

Common Misconceptions of Love

Elaborating on this, Prof. Magoun outlined the common faulty idea people have of love. They fail to differentiate between romance, infatuation and love. They believe it comes at first sight with a "one and only" among all the people in the country, while really there are many girls within a two-mile radius with whom you can be perfectly happy.

This led into the discussion of the requirements for love and successful marriage. Most important, Prof. Magoun stressed, is mutual emotional stability, which includes a realization of another's viewpoints and of the inevitability of certain problems in life.

Marriages between people with basically the same outlook are also more successful. This includes similarity in ability, background, and goals. Marriage should not necessitate much adjustment to the other person's character and personality.

Forty Musicians Turn Out At First Concert Rehearsal

The Technology Concert Orchestra held its first rehearsal of the year last Monday night at 7:00 P.M. in the Litchfield Lounge. There was a fairly large turnout, forty men in all, but not nearly as many as was desired. There is an acute shortage of strings and various other instruments, and if there are any students who play an instrument that has a place in the orchestra they are invited to attend the next rehearsal Monday night at 7:00 in Litchfield Lounge.

Review Sociological, Legislative, Scientific Aspects; Discuss Fears, Hopes, Problems Of Atomic Era

Letters to the Editor

Editor

The Tech

Walker Memorial

To: John A. Contegni, 2-47

Dear John:

I quote directly from your letter to The Tech of Jan. 4, 1946; "It's time for action. It's time that WE here at Tech stop being a bunch of pussy willows. It's time that every Techman with some gumption, etc. etc."

Contegni, WHOM DO YOU MEAN BY "WE" and "EVERY TECHMAN WITH SOME GUMPTION?"

I closed your quotation after the word gumption, because I was thoroughly revolted by the remainder of your letter—your reasoning, and lack of sense of fairness and responsibility.

I'm amused no end by your great concern over being "pulled out" in the middle of your education and then forced to spend some time in the U. S. Army.

I'm similarly amused over your great concern about the shortage of trained scientific personnel, and your fear that the other countries, "great and small" like "Russia and England" will overtake us technologically.

So much for your opinions, Contegni, now let me profer mine.

The war is over and so is the national emergency, I suppose—but there still exists a great demand for men — men with occupation and garrison duty—and it is my firm conviction this duty should be discharged by young men like you and not by the men who fought this war. Concretely, I favor bringing home the present Manila garrison and replacing them by young spirited men (filled with the "gumption" you speak of), who are well qualified in every sense of the word to endure the hardships and ordeal of occupation.

In answer to your second point, Contegni, don't worry about the ranks of science being depleted by the CURRENT draft of college students. Today your reasoning is illogical, as the Director of Admissions will certainly testify. For every man drafted from M.I.T. there are many Vets on the waiting list—WAITING FOR YOU TO GRADUATE — to finish their education which too suffered that interruption of which you complain, so vociferously.

Your third point—rehabilitation and continuance of training after a

Officer Election Planned For Tues. By Radio Soc.

The M.I.T. Radio Society will hold a meeting Tuesday, January 15 at 5:00 P.M. in Room 10-267. Election of officers will be held, and plans will be discussed for classes in radio code and theory for those interested in obtaining amateur licenses.

The Society station, W1MX now has transmitters in operation on the 2 and 10 meter amateur bands, and more equipment available for the rest of the bands as soon as they are opened up.

Nearly a thousand persons crowded into Huntington Hall last Monday afternoon to hear a panel discussion on **Atomic Energy in Peace and War** by Dr. Karl T. Compton, Dean George R. Harrison, and Prof. Norbert Wiener.

Dean Harrison opened the T.C.A. sponsored panel with a detailed discussion of the science of atomic energy; Prof. Wiener then concerned himself with the sociological aspects of the problem while Dr. Compton outlined the proposed Federal legislation for atomic control.

Dean Harrison stressed the difference between molecular and nuclear or sub-atomic energy. He explained that, while butter, when burned, released about 16,000 B.T.U. of heat per pound, only 2,200 B.T.U. per lb. are obtained from uranium in a similar chemical process. However, according to Prof. Einstein it is possible to release 39 million B.T.U. from a pound of any substance by splitting its atoms.

AND WE QUOTE

President Compton: "In regard to the atomic bomb, some people remind me of the contented cows in the Carnation Milk advertisements, caring only where the next mouthful is coming from; others are like a cage of quarrelous monkeys, anxious but running around without knowing what to do."

Dean Harrison: "I think there is more liaison in peacetime between Russian and American scientists than there is between Russian politicians and Russian scientists."

Professor Wiener: "Incidentally, I am told, our greatest competitor for the domination of the earth is the rat. The race is quite as numerous as ours and can adapt itself to most environments. It also shares with man a profound mutual contempt."

Debaters' Journey To Rhode Is. State

Labor Disputes To Be Subject For Discussion

The M.I.T. Debating Society is to argue against the Rhode Island State debaters this afternoon in Providence. The subject of the debate is, "Resolved: That the federal government shall enact legislation requiring the settlement of all labor disputes by compulsory arbitration when voluntary means of settlement have failed, constitutionality conceded." Technology, represented by Clarence S. Lyon, 2-48, and Lorenzo B. Lea, Jr., 2-46, will present the negative.

Next Thursday, January 17, the Technology team will again take the negative on the same subject against Tufts. This debate is being given for the Natick Men's Club in Natick, Massachusetts.

In addition to these discussions, Technology is engaging in two debates at home during the week. On Wednesday, January 16, they will entertain Boston College at Walker. The subject will be, "Resolved: That there be a system of one year's compulsory military training after the war."

The Debating Society will take the affirmative against Holy Cross on Thursday, January 17, on the subject, "Resolved: That the foreign policy of the U. S. should be directed toward the establishment of free trade among the nations of the world."

Neutrons Split U-235 Atoms

For the manufacture of an effective atomic bomb, it was necessary to find a suitable means of bombarding the atoms of some unstable element to release at least part of this energy. Protons, and alpha particles (helium nuclei consisting of two protons and two neutrons) had been tried. But the neutron, because it lodges in the atom it strikes and causes it to break up, was found most successful. This is the principle of fission discovered by Dr. Lise Meitner and others.

For example, the famous U-235 atom, when hit by a neutron, releases 40,000 million B.T.U. per lb. and two neutrons. The two neutrons thus formed hit other U-235 atoms starting a chain reaction to explode the whole mass. The energy released, Dean Harrison noted, is no more than one thousandth of that predicted by Einstein, indicating the tremendous possibilities of atomic power.

Since U-235 is an isotope of U-238 and is found with it, it was necessary, therefore, to purify U-235 and separate it from U-238. This separation was impossible by chemical means, as there is only a difference in atomic weight and not atomic number between the isotopes. Thus the laborious means of physical separation, such as thermal, gaseous, centrifugal or electromagnetic diffusion, had to be used in the preparation of the necessary U-235 for the first atomic bomb.

Second Bomb Used Plutonium

But Dean Harrison expressed the belief that in the second atomic bomb, a more revolutionary substance, the newly discovered plutonium was used and briefly explained the reactions involved in making plutonium.

As much as Dean Harrison would reveal, the actual production first involves purification and concentration of the uranium. As a by-product, one million kilowatt hours of energy are produced per pound of plutonium formed. This appreciably heats the Columbia River where one plant is located.

Plutonium, is at least as powerful as U-235. However, it has the added advantage that it can easily be separated from uranium isotopes.

As for peace-time uses, Dean Harrison stated, "We have the basic energy. The problem now is control of the energy. For that, a con-

(Continued on Page 4)

The Tech

Vol. LXVI

Friday, January 11, 1945

No. 2

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Offices of The Tech

News and Editorial—Room 3	Business—Room 301, Walker
Walker Memorial, Cambridge, Mass.	Telephone KIRKland 1882

STUDENT SUBSCRIPTION, \$1.50 Per Year

MAIL SUBSCRIPTION, \$2.00 Per Year

Published every Friday during College Year, except during College Vacation and the third week in October.

Entered as second class matter December 9, 1944, at the Post Office at Boston, Mass., under the Act of March 3, 1879.

REPRESENTED FOR NATIONAL ADVERTISING BY
National Advertising Service, Inc.
College Publishers Representative
420 MADISON AVE. NEW YORK, N. Y.
CHICAGO • BOSTON • LOS ANGELES • SAN FRANCISCO

Night Editor: Louis F. Kreek, Jr., 10-47

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DRAFT?

The marked influx of letters to the Editor written in reply to John Conregni's outcry printed last week indicates that discussion on the topic of the draft of college students in peacetime is unavoidable. We are, therefore, going to attempt to clarify some of the issues involved.

There is the viewpoint that the drafting of students engaged in scientific endeavor is sheer stupidity on the part of the Government, that the volume of graduates receiving scientific degrees during the war period decreased far below peacetime averages because of this indiscriminate removal, and that of the great powers involved in the struggle, the United States was the only one not to take cognizance of the fact that scientific men would be needed for the future. The proponents of this point of view, therefore, feel that with the fighting over, a large draft is no longer necessary, and that scientific students, like civilians in essential industry, be deferred, at least until graduation. They argue that with not many more than half a million men needed for occupational duties, the draft quota can easily be filled without taking students.

Naturally veterans who have been through the war and are now returning to their schools will hotly contest this. They see a quality of selfishness and unfairness in these ideas, and feel that these men should deem themselves lucky that when they have to do their stint in the service, they will not have to dodge bullets and live in foxholes for months on end. These veterans left their campuses for the Army camp when the fighting was toughest, so why shouldn't the students of today follow them, now that they will have nothing more to do than garrison or occupation duty?

All well and good, you might say, but what a waste of time and money. With scientists and engineers at a premium, the Government should leave these chores to those youths who have not entered university, but who have gone directly into work. The percentage of high-school graduates who enter college in this country is amazingly low, so there should be a large reservoir of workingmen from which to draw.

This now brings to the fore the third idea to be discussed, placing the problem on an environmental or perhaps economic basis. Men brought up in an environment which would tend to discourage education past the high-school or grammar-school level, either because of lack of initiative or lack of the necessary pecuniary resources, will, by the above reasoning, have to go through the hardships of military training, while the more fortunate, and perhaps no more intelligent, need not endure these rigors. Is this fair? Moreover, is this democracy?

Obviously each side of the issue will have its adherents. Many and varied conclusions can be drawn, and we have not tried to settle the issue here and now. A good deal of intelligent thought is necessary, for this problem involves complexities of wide and diverse nature. Is, however, the irreplaceable loss of time and energy to the country in drafting the student worth the ultimate gain derived from his duties as part of an occupational army?

Atom Bomb

(Continued from Page 1)
control mechanism to establish a useful temperature is necessary.

Social Implications of Atomic Energy

Prof. Wiener, discussing the social implications of atomic energy, opened his talk by explaining why races that once dominated the world have died out. Sometimes this is due to over specialization or competition, but more often due to fluctuation of environment.

"It is my belief," said Prof. Wiener, "that the advance in the last century has been greater than in the whole previous period of the existence of the human race, and greater in the last year than in the last century."

He added, "We now need a social science comparable to the physical science," and maintained that we are off to a bad start. This great power was used for the first time "in the most old-fashioned and anti-social way possible" as a weapon of destruction.

Before this time we could afford war because, while it wiped out the individual, it did not materially affect the race. "We were," he said, "protected from folly by our own impotence."

Can Make Continent Unlivable

"Can we," asked Dr. Wiener, "learn to live with powers that can make our continent unlivable?" He urged consideration of the possibility that our cities ought to be decentralized.

For the first time the acts of individuals are vital to human welfare, because, as Dr. Wiener stated, not most but all people must be of good will; since a few can have such enormous power with the aid of atomic energy.

Prof. Wiener does not believe that the next war will wipe out the hu-

man race, but that it will destroy our civilization. "I don't want to say how many minutes it will take because I do not know," he concluded.

Seriousness Not Yet Realized

President Compton, before outlining the legislation on atomic control, stated that he believed that the seriousness of the situation is realized fully only by the scientists who know the extent of the power.

The general public is informed but skeptical.

Dr. Compton believes that the suddenness of the news about the atomic bomb caused most of the confusion. He praised President Truman and ex-Secretary of War Stimson for their whole-hearted and far-sighted policy in regard to the bomb.

Special Board Created in May

As early as last May, when it first seemed certain that the atomic bomb would be a success, President Truman created three special panels of administrators and scientists, including Dr. Compton and President Conant of Harvard.

The board was assigned the tasks of gathering all the facts on atomic energy and of preparing reports on the tests planned. Most important it was to draft legislation on atomic power control which it was to present to Congress immediately after the dropping of the first bomb.

It was hoped that Congress could pass legislation, immediately after Hiroshima "before general confusion could set in, to allow the United States a set policy in the proposed, immediate discussions with other nations on atomic power," said President Compton.

Immediate Legislation Wrecked

Three factors prevented immediate legislation. The May-Johnson

(Continued on Page 4)

Faculty Teas Given For Upperclassmen

The faculty of the various departments are planning to entertain the Juniors and Seniors of their respective courses this month at a series of teas. The purpose is to bring professor and pupil together on a social as well as a formal classroom basis.

The first of these teas was held on Tuesday, January 8, in the Emma Rogers Room, 10-340, from 4:00 to 6:00 P.M. At this time the Departments of Biology, General Science, Mathematics, and Physics entertained.

This afternoon from 4:00 to 6:00 P.M. the faculty of the Departments of Architecture and Planning, Building Engineering and Construction, Business and Engineering Administration, and Civil and Sanitary Engineering will be hosts to the upperclassmen enrolled in those courses at the second tea also in the Emma Rogers Room. The next tea will be held next Tuesday at the same time and place as the others.

J. P. Tickets Go On Sale Monday In Building 10

Junior Prom tickets will be on sale Monday and Tuesday, January 14 and 15 from 11:00 A.M. to 2:00 P.M. in the Lobby of Building 10.

Three parties are scheduled for the Saturday night after the Prom. They will be at Chi Phi, 22 the Fenway, Phi Kappa, 229 Commonwealth Ave., and Phi Sigma Kappa, 487 Commonwealth Ave. All three parties will be provided with orchestras.

EXAMINATION SCHEDULE

SATURDAY, FEBRUARY 16—9 A.M.

1.42	Structures	Mitsch
1.732	Adv. Water Power Eng.	Gifford
2.051	Str. of Materials	Soderberg
2.052	Dynamics	Soderberg
2.401	Heat Engineering	Svenson
6.04	Electrical Eng.	Dwight
8.21	Electric Phenomena	Nottingham
10.32	Chemical Eng.	McAdams
13.55	Marine Engineering	Burtæ
16.10T	App. Aerodynamics	Ober
16.22	Aircraft Structures	Newell
M21	Calculus	Zeldin
M22	Diff. Equations	Zeldin
M31	Diff. Equations	Loud
M571	Diff. Equations	Levinson
	Special Examinations	

SATURDAY, FEBRUARY 16—1:30 P.M.

1.272	Transport. Eng.	Babcock, Bone
1.572	Stat. Indet. Struct.	Wilbur
1.71	Water Power Eng.	Gifford
2.06	Dynamics	Adkins
2.07	Dynamics	Hrones
5.366	Amino Acids & Prot.	Ashdown
5.62	Physical Chemistry	Millard
6.30	Prin. Elec. Com.	Gillemin
8.462	Int. Theoret. Phys.	Whitmore
10.60	Heat Transmission	McAdams
13.12	Th. of Warship Des.	Manning
13.73	Mech. Vibrations	F. M. Lewis
14.02	Descr. Meteorology	Willert
14.16N	Syn. Meteorology	Willert
14.426N	Syn. Meteorology	Austin
16.21	Structures	Newell
16.621	Aerodynamics	Ober
E21	Economic Principles	D. S. Tucker
M12	Calculus	Douglas
M351	Adv. Calc. for Eng.	Hildebrand
M381	Th. of Functions	Levinson
	Special Examinations	

MONDAY, FEBRUARY 18—9 A.M.

1.362	Soil Mechanics	D. W. Taylor
1.76	Sewer & Sew. Treat.	Stanley
2.41	Heat Engineering	Taft
2.43	Heat Engineering	Keenan
6.03T	Prin. Elec. Eng.	Lyon
6.312	Prin. Elec. Com.	Argumbau
6.522	Adv. A-C Machinery	Lyon
6.562	Adv. Network Th.	G. S. Brown
6.605	Servomechanisms	Gould
7.80	Biochemistry	Osborne
8.01	Physics	Bolt
8.053	Arch. Acoustics	Walker
10.21T	Industrial Chem.	Walker
10.63	Industrial Chem.	Walker
14.712N	Phys. of the Atmos.	Houghton
14.72	Physical Meteo.	Houghton
16.14	Airpl. Design Prob.	Koppen
E21	U. S. in World History	Rae
E22	U. S. in World History	Rae
M382	Th. of Functions	Levinson
	Special Examinations	

MONDAY, FEBRUARY 18—1:30 P.M.

1.562	Adv. Struct. Th.	Fife

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Sports Flashes

By Bill Herberg and Bill Rapoport

One week from Saturday night, the Tech indoor track season gets under way with an invitation meet held by the Boston Y.M.C.A. Last year, the Beaver's indoor track squad was about tops for the Northeast, with its two-mile relay team of Serrie, Goldie, Shea, and Crimmin undefeated in all but one meet. Their only setback came at the hands of the National Champs in a one mile effort. This year only Serrie is left of the four, the others either having been graduated or transferred. Warren Chapman, who substituted on occasions for one of the four, is also back, and with Serrie, is expected to form the nucleus of this year's relay team. In the sprints, Captain Bill Casey, a consistent winner both indoors and out, is expected to improve on several of his own marks. The remainder of the squad is primarily made up of newcomers upon whose shoulders will rest the success of the squad.

Navy basketball seems to be in a slight rut, for after playing inter-squad games for almost two months to determine who should enter the playoffs, it was decided to scrap the results up to date and have each platoon enter a team in a playoff. How this decision was arrived at, we do not know, but it seems rather a shame to see the whole schedule upset by a system in which one loss will throw a previously undefeated team out when it might just be having an off night. A tournament, however, no matter how it is run, seems much better than no basketball at all, which seems to be the story on Beaver Key ball these days.

Last Saturday night's basketball game with Harvard showed the Engineers to have a worthy team with plenty of fight. In our opinion the only factor that prevented a win over Harvard was one Wyndol Grey, All-American from Bowling Green. His superb shooting thrilled the crowd and provided the points with which Harvard took the tilt.

Chuck Wellard also supplied some grandstand shooting on behalf of the Engineers. His left-handed pivot shot from the circle and one-hander from the side of the court never even touched the rim and were echoed in the applause from the crowded Walker Gym. Unfortunately the rooters were mostly for the Crimson. Mr. Wellard was also the recipient of a terrific hip from Grey. While going in for a layup, Chuck knocked right through the doors leading into the locker room. The whole game was of the crowd-appealing variety and should draw more people to Walker Gym in the future.

HARVARD			M.I.T.		
g	f	pt	g	f	pt
Gant,rf	2	2	Murphy,lg	1	9
Clark	0	0	Nedusha	0	0
Gray,lf	12	1	Aitken,rg	1	3
Desic,c	0	2	Craig	0	1
Jenkins	0	0	Waldron,e	3	2
N.Fischin,rg	3	4	Monkallito,c	0	0
Swegom,c	0	0	Huechling,lf	1	2
Champion,lg	1	1	Cellard,rf	6	5
Davis	0	0	Ciccone	0	0
Totals	22	10	54	Totals	15
Referees—Tony Gentile, Lou Hach.			12	42	

BROWN 58, M.I.T. 37

BROWN			M.I.T.		
g	f	pt	g	f	pt
Grimshaw,f	10	5	Murphy,f	5	10
Meschik,f	0	0	Aitkin,f	4	1
Reese,rg	1	0	Ryan,f	0	0
Costa,c	4	1	Waldron,e	1	2
Hoying,c	1	0	Monkallito,c	0	0
Zuber,g	5	0	Huechling,rg	3	2
Wines,g	0	0	Wellard,g	0	0
Clapp,g	1	0			
Watts,g	0	0			
Eaker,g	2	0			
Totals	25	8	58	Totals	16
Referees—Tony Gentile, Lou Hach.			5	37	

Crew Returns To Pre-War Program In Coming Season

Turnouts For Spring Practice To Commence Monday, January 14.

For the first time in four years, crew will resume its peacetime schedules with more numerous and larger regattas. Tech is scheduled to row against eight colleges in the coming season. The eights who are going to oppose Tech on the river are Princeton, Rutgers, University of Pennsylvania, Cornell, Harvard, Columbia, and Navy. In the past few years Navy has managed to cop top honors losing only one meet, and ending up with the nation's rowing crown. However, this season, with many ex-varsity and frosh crewmen returning to the non-service schools, the Navy's supremacy will be firmly challenged. Here at Tech ex-first boaters Al Bowen and John Rudolf will feature the return of many old crewmen to the Charles. Material from last Spring's boats is extremely bare as Acting Captain John Taft is the only returning veteran with varsity experience and there are practically no men left from the lower boats.

Turnouts for practice will start January 14, at the boathouse, which is on the Charles River near the Cottage Farm Bridge. There will be practice every week day, and the practice will be carried out in two shifts so that all that try out for the teams will be able to get as much practice as they need. The first group will begin to practice at 4:30 and the second group will start at 5:15.

All men who would like to try out for crew and all men from last year's freshmen and varsity squads are urged to come out. This year the crew team composed of the 150-pounders will be resumed and meets are also scheduled for the freshman boat.

Coach Jim McMillan has a giant task in front of him as he will have to round the new men into shape in record breaking time if he is to have a team to enter in the first meet. For this reason it is necessary that all men interested in crew report to Coach McMillan as soon as possible.

Swimming Team To Meet U.S.C.G.

The Tech varsity swimming team is scheduled to meet with the U.S. Coast Guard Academy tomorrow afternoon at 2:30 P.M. in the Alumni Pool. The varsity will be somewhat depleted due to the fact that several of its starters are ill. These are Foust, Marshall and Kellom.

However, Coach Smith and Captain Buckman feel that the meet will be very close and that the final relay will probably decide the issue.

This meet is to be the third of the season. So far the Tech Men have beaten Wesleyan and lost to Brown.

The following events are scheduled:

300-yard medley relay, 220-yard freestyle, 50-yard freestyle, dives, 100-yard freestyle, 150-yard backstroke, 200-yard breast stroke, 440-yard freestyle, and 400-yard free-style relay.

The next home meet will be in three weeks with Tufts, followed by another with Connecticut State the week after. The pool will be opened to all and there will be no admission charged.

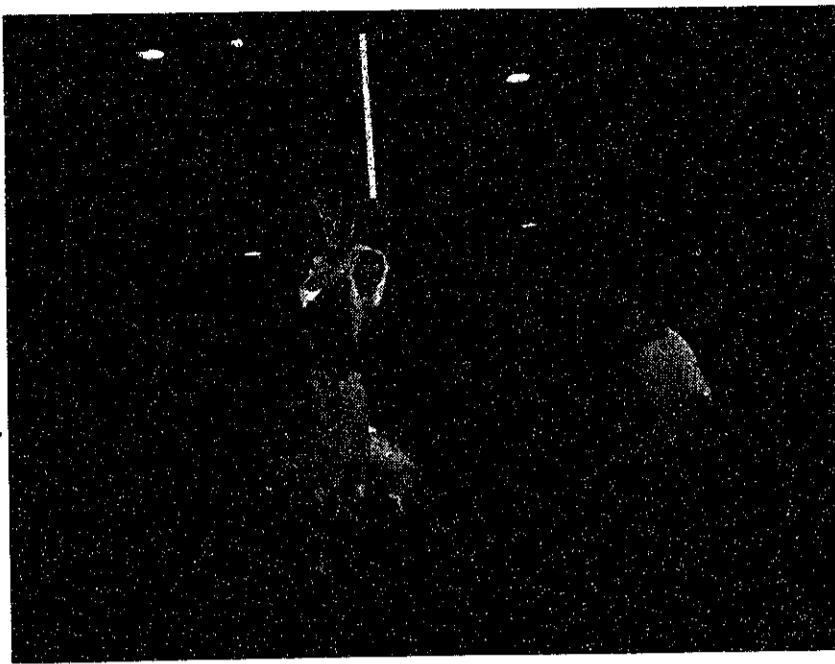
THE WORLD'S MOST HONORED WATCH



Longines

WINNER OF 10 WORLD'S FAIR
GRAND PRIZES, 28 GOLD
MEDALS AND MORE HONORS
FOR ACCURACY THAN
ANY OTHER TIMEPIECE
THE MOST HONORED WATCH ON

TECH BATTLES HARVARD



Murphy fights for the ball under the Tech basket, as Crimson rushes the play.

Playoffs Start In Navy Intramural Basketball League

The playoff system for the Navy Intramural Basketball League was announced this week and met with general favor throughout the loop. The thirteen teams which participated during the season have been cut down to six, one from each platoon in the unit. In order to keep the best individual talent playing, the several teams formerly representing each platoon were merged into the strongest possible outfit to compete for the championship of the battalion.

Seeded first and drawing a bye in the first round is team one, from the first company, first platoon, which can flash Marks, Mathews, Curran and others from the quintet which led the league. Their major opposition is expected to come from platoon two of the same company, which also received a bye into the second round.

In the first game played in the first round, team six from the second company, third platoon, showed that it is to be reckoned with as a championship possibility in running up a 37-18 count on team five. Moore and Wangberg contributed 8 and 6 points respectively, while Restivo netted 6 for the losers.

Intramural League Formed For Dormitory Basketball

Athletic Chairman John A. Contegni, 2-47, has announced that all the necessary arrangements for the Dormitory basketball tournament have been made. Most of the teams are in the process of electing captains and choosing their squads.

Interest has been running especially high since medals will be awarded to the winning squad. The gym will be reserved for dormitory practise on Monday and Wednesday nights. Each dorm will be provided with a complete set of uniforms, which will be distributed at a later date.

Last Saturday afternoon, the Walker Gym was the scene of some really rough and rugged practise games. Some of the fellows showed that they really know how to handle the ball. From all indications Hayden looks like the team to beat. The team, under captain Frank P. Coy, 2-48, has won all of its practise games thus far. Everyone is invited to watch the games which will be played on Saturday afternoons.

Engineers Rout Hanover Team In Squash Meet

Blank Indians 5-0; Play Dartmouth, Yale, Harvard In Five Days

M.I.T. soundly trimmed the Dartmouth Indians last Saturday at Hanover to annex their first collegiate win of the season. The Engineers' experience and ability proved too much for the Green to handle, as the final score of 5-0 indicates. Captain Roger Sonnenbend, playing in second position, won his match three straight, while each of the other Beavers' matches was extended to only four games.

On the basis of this overwhelming victory, M.I.T. is an odds-on favorite to open its home season with another win over the Indians here on January 11. The line-up for that contest is as yet indefinite, since Joe Labov may replace Pete Wright in the number five spot. Otherwise, however, Tech will present the same unit which blanked the Indians in their first match.

It is hoped that a large crowd will be on hand to witness this game next Friday.

Play at Yale Saturday

On Saturday the Beavers travel to New Haven, Conn., to tackle the Yale Bulldogs. This year's Eli team is expected to be considerably stronger than the aggregation which lost 5-0 to last season's championship Technology unit. Shively, ex-star of the Exeter squash outfit, and now a freshman at Yale, is expected to provide considerable opposition, as are several holdovers from last year's team who will be seeking revenge.

On Tuesday, January 15, the team will make its third start in five days as it plays host to Harvard. The Engineers are not expected to have much trouble with their downstream neighbors, who are lacking in experienced regulars, except for Knowles, a returning veteran who is the sparkplug of the Crimson.

Plans are also under way for the intercollegiate Squash championship which will be held at M.I.T. for the first time in history. Among the schools which definitely will be represented are Dartmouth, Harvard, Princeton, Trinity, Wesleyan, Williams, Yale, Army, McGill, and Tufts.

The summaries of the Dartmouth match:

M.I.T. 5, Dartmouth 0
Squash at Hanover, New Hampshire
Pierce defeated Barrett 8-15, 13-10, 15-5, 16-13;
Sonnenbend defeated Carruthers 15-12, 15-13, 15-11;
Toperzer defeated Mann 15-11, 15-13, 16-17, 15-10;
Dorfinger defeated Hiron 15-12, 12-15, 17-15, 17-15;
Wright defeated Witzell 7-15, 15-10, 15-8, 15-8.

home team to a 27 to 23 halftime lead.

The score was 41 to 34 for Brown when Waldron, Tech center, fouled out. That left the Beavers almost helpless under the basket when trying to get rebounds. Taking advantage of their control of the backboards and of looseness which resulted in the Tech defense from attempts to steal the ball, Brown continued to pour on the heat to the end of the game at which time they had amassed their total of 58 points.

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Letters

(Continued from Page 1)

presently drafted man is discharged from occupation or garrison duty is none too strong either. Remember, you said "The War Is Over." Subsequent to that, I say "It's not dangerous anymore." When the draftee of today is discharged and returns to school I doubt if during the first few months he ducks each time a truck backfires, dives for cover when an American Airlines plane flies low overhead, or feels as if he's a stockholder in the Bayer Aspirin Company.

The keynote of America—America, which was spared from any vestige of real war by the battered bodies and crushed minds, by the white crosses and canvas bags covering or containing the remnants of American men—is the word Democracy. I insist on reading two meanings into that word, Contegni—Equality of Opportunity and Equality of Responsibility.

We violently demand the former, but how conscious is each of us of the latter? Edward J. Schmidt, G.

Editor,
The Tech,
Walker Memorial.

An open letter to the "Students of America":

In last week's edition of *The Tech*, there appeared a letter from Mr. John A. Contegni, a student at M.I.T., who apparently will soon be going into the Army.

In spite of his belief that "military training has its merits," Mr. Contegni thinks that he should not be drafted because: (1) any interruption in his education will do him a great deal of harm. (2) He has spent two long and hard years at M.I.T., and during that time has "become accustomed to the 'Tech is Hell' way of life." (3) England and Russia exempted engineering students from military training "even during the darkest days of the war." (4) There is a pressing need for engineers at the present time.

If the unfortunate who was brought up in an undesirable environment which caused him to lose all desire to educate himself must endure the training, then it is only fair that the one who was lucky enough to want to go to college and be an engineer should also be involved.

I am not prepared to argue about the present need for engineers. However, assuming that there is a need at the present time, will there be as great a need in ten or fifteen years? Is there then a possibility that industry will not be able to absorb the great numbers of returned veterans who are planning to be engineers and give them the well-paying jobs that they expect? Would it, therefore, be advisable to discourage (to a limited degree, of course) young men from choosing engineering as a profession?

The point, though, that I would like to emphasize is that our engineering training does in no way make us any better than the non-engineer, and consequently we have no right at all to expect exemption from something that might do us harm, let alone clamor at the doors of Congress that our case might be tried.

It is unfortunate that Mr. Contegni's education will be interrupted, but may I point out that they are still drafting men from Liberal Arts schools, and they are still taking young men who have not been fortunate enough to go to college, from jobs that might mean a comfortable future for them. . . .

The fact that England and Russia exempted engineering students from military training should in no way influence the decision of Congress concerning such a matter, for it is rather well known that the need for engineers in those countries is much greater than the need in the United States. Then, too, is there any good reason why our policy toward engineers should conform with that of those two nations?

So "Students of America," if you must "pick up your pens" use them to fight for complete freedom from the evil of military training and not for something that would result in your own personal gain.

Sincerely,
Philip J. Evans, 2-48

Activities, Attention**ELECTIONS**

All activities must turn in the names of their new managing boards and officers to Marshall P. Tulin, 2-46, by Friday, February 1, if they wish to be represented by their new officers at the last meeting of the Institute Committee this term, at which time the Executive Committee for next term will be elected.

FINANCIAL REPORTS

All reports from both Class A and Class B activities should be turned in to the Budget Committee as soon as possible. Class B activity dues of \$1.00 are also due. Monthly financial reports, including a profit and loss statement and balance sheet, must be turned in to the Budget Committee by February 15.

Atom Bomb,

(Continued from Page 2)

bill had such glaring mistakes that it was deemed advisable not to sacrifice perfection at the expense of promptness. Even then there was quite some delay in its presentation. Thirdly, the proposed international atomic parleys did not take place as promptly as planned.

Therefore it was decided to recast the bill. The Senate went as far as forming its own atomic power committee under the leadership of Senator McMahon. This committee took a very intelligent attitude, according to Dr. Compton, by going to school to learn the fundamentals of atomic energy and by appointing top scientific advisors.

Too Much Power to Commission

Dr. Compton then outlined the basic faults of the old May-Johnson bill. It called for an atomic energy commission by presidential appointment with an administrator elected by the members. But the bill gave too much power to the commission. For example, it proposed to allow the commission control "of all materials potentially capable of fission."

This, according to President Compton, would give it control over 91 of the 92 elements if it wished to make full use of this provision. Also the commission had the power to stop all independent research on atomic power, which would greatly handicap important research.

Dean Harrison called for a thoughtful rather than worried attitude. He believed that the bomb would force human nature to change and would outlaw war. He felt that there had always been danger to the individual, and that death by the assassin's bullet was as final as by the atomic bomb.

Fears Discontented Groups

Dr. Wiener stated that the atomic bomb not only increased the individual's danger but also wiped out the protection of inertia.

"I do not fear Russia because she needs stability, and the atomic war is a losing game for both players, but rather I am afraid of discontented groups like the Nazis who have terrible weapon for revenge," said Dr. Wiener.

He regretted that the atomic bomb was used at all. Rather it would have been more successful to establish a taboo on it from the start. The precedent has been established.

Harrison Expresses Optimism

Before another war comes, Dean Harrison thought, there will be such a political and economic tieup between nations caused by scientific advances of transportation, and that they will not go to war,

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Hillel Continues Discussion Groups

The Hillel Foundation at M.I.T. will continue its regular cultural program throughout the rest of the term under the leadership of Mr. Judah J. Shapiro, director. Discussion groups are to be held Tuesdays and Friday at 5:00 P.M. in the Faculty lounge of Walker Memorial.

The subject of the Tuesday meeting is "Social Ideals of the Prophets"; Friday's group will discuss "Contemporary Jewish Life."

Sunday morning brunches will be held at the Hillel Lounge, Harvard Square, at 10:30 A.M. Students planning to attend should register with Leon Baum, Walcott 203.

just as "the cities of Cambridge and Watertown do not fight each other, although at one time war was waged on this level."

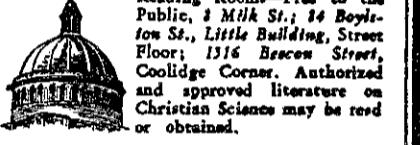
Backed by Dr. Compton, he expressed the belief that only groups as large as nations were capable of assembling the supplies and personnel for making atom bombs.

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**Institute Committee BRIEFS**

The following business was transacted at the regular bi-weekly meeting of the Institute Committee held yesterday at 5:00 P.M. in Litchfield Lounge.

Class Elections

Class elections will be held this term for the following classes and offices: 2-46 will elect permanent class officers, president and secretary and three marshals; 6-46 and 10-46 combined class elections for president, vice-president, secretary-treasurer, and two Institute Committee representatives; 10-47 will elect a Junior Prom Committee of five members; 2-48 will elect class officers, president, vice-president, secretary-treasurer, and two Institute Committee representatives.

M.I.T.O.C. Constitution

The Constitution of the M.I.T. Outing Club was approved. There was considerable discussion regarding the advisability of the incorporation of the O.C. The questions of liability and ownership of property were brought up and disposed of.

Dance Budget Motion

It was moved, seconded and passed, "That any dance budget over \$1000 be approved by the Institute Committee at least three months before the dance is to be held, provided, that the dance is being held by an organization which draws its funds through the Institute Committee." The last provision excludes the I.F.C. and Dorm Christmas Dance, leaving the

motion pertaining to the J.P.

Dramashop R

A report was given by the Dramashop Manager, Willia 2-46. The Dramashop membership of 35 permanent officers, general secretary-treasurer, and national officers for each play. The organization money from the Institute, its source of income, the sale of tickets, more social activities campaigning in co-operation with the Combined Musical Institute auditorium their performances.

Elections App

The following election appointments were approved: Tech Managing Board Manager Richard Barker, Claude W. Brereton, Business Managers, Cohen, 10-46, and Dorfman, 2-47; The Combined Societies, Bernard 2-46, Chairman, Willard 2-46, Vice-Chairman, Burke, 2-46, Treasurer, Spiesberger, 2-46, Secretary Member.

Ferguson, 2-47; Freshman Committee representative, B. Maley, 2-48, and others, 2-48, and Chairman Council, William Absent from the David G. Black, 2-46; Richman, 10-46. Present for William H. Noel N. Coe, 2-46, and Freeman, 2-46.

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